

Dr. Duke's Phytochemical and Ethnobotanical Databases

Chemicals found in *Angelica sinensis*

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
112	ASCORBIC-ACID	Root	67.0	304.0	-0.4721936580133219	--
77	ZINC	Root				--
75	VITAMIN-E	Root		77.0		Pedersen, M. 1987. Nutritional Herbology. Pederson Publishing. Bountiful, Utah. 377 pp.
65	MAGNESIUM	Root	583.0	2650.0	0.047066853971341596	--
61	FERULIC-ACID	Plant		940.0	0.7045758177797922	Jim Duke's personal files.
61	FERULIC-ACID	Root				Pedersen, M. 1987. Nutritional Herbology. Pederson Publishing. Bountiful, Utah. 377 pp.
60	SELENIUM	Root	0.1	0.4	-0.3339983213346751	--
53	BETA-CAROTENE	Root	0.3	1.2	-0.42874913335629994	--
47	BETA-SITOSTEROL	Root				Chemical Constituents of Oriental Herbs (3 diff. books)
44	SCOPOLETIN	Root				Chemical Constituents of Oriental Herbs (3 diff. books)
39	NIACIN	Root	15.0	68.0	0.5147577614900641	--
37	CARVACROL	Root Essent. Oil				Jim Duke's personal files.
37	CARVACROL	Root				Pedersen, M. 1987. Nutritional Herbology. Pederson Publishing. Bountiful, Utah. 377 pp.
32	ALPHA-TOCOPHEROL	Root				Jim Duke's personal files.
31	THIAMIN	Root				Pedersen, M. 1987. Nutritional Herbology. Pederson Publishing. Bountiful, Utah. 377 pp.
29	SAFROLE	Root				Pedersen, M. 1987. Nutritional Herbology. Pederson Publishing. Bountiful, Utah. 377 pp.
29	SAFROLE	Root Essent. Oil				Jim Duke's personal files.
29	TRYPTOPHAN	Root				Jim Duke's personal files.
28	CALCIUM	Root	620.0	2820.0	-0.5018997684435467	--
28	ALPHA-PINENE	Root				Pedersen, M. 1987. Nutritional Herbology. Pederson Publishing. Bountiful, Utah. 377 pp.

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
27	LINOLEIC-ACID	Root				Pedersen, M. 1987. Nutritional Herbology. Pederson Publishing. Bountiful, Utah. 377 pp.
26	BERGAPTEN	Root				Chemical Constituents of Oriental Herbs (3 diff. books)
24	CHROMIUM	Root	0.2	0.9	-0.3805576061834531	--
23	FOLIC-ACID	Root				Chemical Constituents of Oriental Herbs (3 diff. books)
22	UMBELLIFERONE	Root				Chemical Constituents of Oriental Herbs (3 diff. books)
22	GABA	Root				Jim Duke's personal files.
22	GAMMA-AMINOBUTYRIC- ACID	Root				Jim Duke's personal files.
20	CHOLINE	Root		2470.0	-0.12100326278601606	Pedersen, M. 1987. Nutritional Herbology. Pederson Publishing. Bountiful, Utah. 377 pp.
18	OLEIC-ACID	Root				Pedersen, M. 1987. Nutritional Herbology. Pederson Publishing. Bountiful, Utah. 377 pp.
16	FALCARINOL	Root				Chemical Constituents of Oriental Herbs (3 diff. books)
16	P-CYMENE	Root				Pedersen, M. 1987. Nutritional Herbology. Pederson Publishing. Bountiful, Utah. 377 pp.
15	RIBOFLAVIN	Root	0.8	3.4	-0.14761901787013534	--
15	METHIONINE	Root				Jim Duke's personal files.
15	FOLACIN	Root				--
15	FIBER	Root		172000.0	1.8630150734263555	Pedersen, M. 1987. Nutritional Herbology. Pederson Publishing. Bountiful, Utah. 377 pp.
14	SUCROSE	Root				Chemical Constituents of Oriental Herbs (3 diff. books)
14	POTASSIUM	Root	2354.0	10700.0	-0.37188592487614675	--
14	MANGANESE	Root	0.6	2.6	-0.5148269484931834	--
14	ARGININE	Root				Jim Duke's personal files.
13	FALCARINDIOL	Root				Chemical Constituents of Oriental Herbs (3 diff. books)

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
13	PALMITIC-ACID	Root				Pedersen, M. 1987. Nutritional Herbology. Pederson Publishing. Bountiful, Utah. 377 pp.
12	COPPER	Root		5.0	-0.7439970811056329	Suzuki, A., Morimoto, I., and Okitsu, T., Elution of Metals from Crude Drugs, Shoykugaku Zasshi 36(3):190-195.
12	GLYCINE	Root				Jim Duke's personal files.
12	ARACHIDONIC-ACID	Root				Chemical Constituents of Oriental Herbs (3 diff. books)
11	NICOTINIC-ACID	Root				Chemical Constituents of Oriental Herbs (3 diff. books)
11	PANTOTHENIC-ACID	Root				Chemical Constituents of Oriental Herbs (3 diff. books)
11	ADENINE	Root				Jim Duke's personal files.
10	BUTYLDENE-PHTHALIDE	Root				Jim Duke's personal files.
8	STEARIC-ACID	Root				Pedersen, M. 1987. Nutritional Herbology. Pederson Publishing. Bountiful, Utah. 377 pp.
8	FRUCTOSE	Root				Chemical Constituents of Oriental Herbs (3 diff. books)
8	GLUTAMIC-ACID	Root				Jim Duke's personal files.
8	TYROSINE	Root				Jim Duke's personal files.
7	LIGUSTILIDE	Root Essent. Oil		739800.0	1.0	Jim Duke's personal files.
7	LIGUSTILIDE	Root				Pedersen, M. 1987. Nutritional Herbology. Pederson Publishing. Bountiful, Utah. 377 pp.
7	HISTIDINE	Root				Jim Duke's personal files.
7	GLUCOSE	Root				Chemical Constituents of Oriental Herbs (3 diff. books)
7	SUCCINIC-ACID	Root				Jim Duke's personal files.
7	PHENYLALANINE	Root				Jim Duke's personal files.
7	LIGUSTILIDE	Essential Oil		450000.0	1.0	Jim Duke's personal files.
6	IRON	Root	19.4	88.0	-0.313807642199598	--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
6	MYRISTIC-ACID	Root				Pedersen, M. 1987. Nutritional Herbology. Pederson Publishing. Bountiful, Utah. 377 pp.
5	STARCH	Root	33000.0	150000.0	-0.6933088087748416	--
5	ALUMINUM	Root	93.0	422.0	-0.0860532203055952	--
4	THREONINE	Root				Jim Duke's personal files.
4	CADINENE	Root				Pedersen, M. 1987. Nutritional Herbology. Pederson Publishing. Bountiful, Utah. 377 pp.
4	TIN	Root	0.9	4.0	-1.2692190956073157	--
4	BIOTIN	Root				Chemical Constituents of Oriental Herbs (3 diff. books)
4	PHOSPHORUS	Root	735.0	3340.0	-0.031231075436283107	--
4	SILICON	Root	0.8	3.4	-0.327286207739498	--
4	LYSINE	Root				Jim Duke's personal files.
3	FALCARINONE	Root				Chemical Constituents of Oriental Herbs (3 diff. books)
3	ISOLEUCINE	Root				Jim Duke's personal files.
3	ISOSAFROLE	Root				Pedersen, M. 1987. Nutritional Herbology. Pederson Publishing. Bountiful, Utah. 377 pp.
3	VALINE	Root				Jim Duke's personal files.
3	ASPARTIC-ACID	Root				Jim Duke's personal files.
3	ALANINE	Root				Jim Duke's personal files.
2	NICOTINAMIDE	Root				Pedersen, M. 1987. Nutritional Herbology. Pederson Publishing. Bountiful, Utah. 377 pp.
2	CYSTINE	Root				Jim Duke's personal files.
2	PHOSPHATIDYL-CHOLINE	Root				Jim Duke's personal files.
2	LEUCINE	Root				Jim Duke's personal files.
2	COBALT	Root	3.3	15.1	-0.21746232835558876	--
1	LIGNOCERIC-ACID	Root				Jim Duke's personal files.

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
1	N-BUTYLPHthalide	Root				Pedersen, M. 1987. Nutritional Herbology. Pederson Publishing. Bountiful, Utah. 377 pp.
1	SODIUM	Root				--
1	SERINE	Root				Jim Duke's personal files.
1	ANGELIC-ACID	Root				Jim Duke's personal files.
0	POLYSACCHARIDE	Root				Jim Duke's personal files.
0	ANGELOL	Root				Jim Duke's personal files.
0	DODECAN-1-OL	Root				Jim Duke's personal files.
0	N-BUTYLDENE-PHTHALIDE	Root				Chemical Constituents of Oriental Herbs (3 diff. books)
0	ANGELICONE	Root				Jim Duke's personal files.
0	KILOCALORIES	Root		2820.0	-1.2035188668532102	Pedersen, M. 1987. Nutritional Herbology. Pederson Publishing. Bountiful, Utah. 377 pp.
0	N-TETRADECANE	Root				Jim Duke's personal files.
0	N-VALEROPHENONE-O-CARBOXYLIC-ACID	Root				Chemical Constituents of Oriental Herbs (3 diff. books)
0	ANGELICIDE	Root		10.0		Jim Duke's personal files.
0	FIBER(DIETARY)	Root		350000.0	-0.5288907611400689	--
0	TETRADECAN-1-OL	Root				Jim Duke's personal files.
0	PROTEIN	Root	28600.0	130000.0	0.1301143428510278	--
0	2,4-DIHYDRO-PHTHALIC-ANHYDRIDE	Root Essent. Oil				Jim Duke's personal files.
0	N-VALEROPHENONE-O-CARBONIC-ACID	Root				Chemical Constituents of Oriental Herbs (3 diff. books)
0	ANGELICIDE	Plant				Jim Duke's personal files.
0	BETA-SITOSTEROL-GLUCOSIDE	Root				Chemical Constituents of Oriental Herbs (3 diff. books)
0	FIBER(CRUDE)	Root		172000.0	1.7960562990838373	--
0	D-SUCROSE	Root				Jim Duke's personal files.
0	LYSOPHOSPHATIDYLCHOLINE	Root				Jim Duke's personal files.
0	EO	Root	880.0	7000.0	-0.3250740058070961	--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
0	VITAMIN-B12	Root				Chemical Constituents of Oriental Herbs (3 diff. books)
0	CIS-BETA-OCIMENE	Root Essent. Oil		121800.0		Jim Duke's personal files.
0	N-DODECANOL	Root				Chemical Constituents of Oriental Herbs (3 diff. books)
0	ANGELICA-SINENSIS-COMPOUND-E-232	Root				Jim Duke's personal files.
0	VITAMIN-A	Root				Jim Duke's personal files.
0	PHTHALIDES	Root				Pedersen, M. 1987. Nutritional Herbology. Pederson Publishing. Bountiful, Utah. 377 pp.
0	BUTYLDENE-NEPHTHALIDE	Root Essent. Oil				Jim Duke's personal files.
0	ANGELICA-POLYSACCHARIDE-AS-1	Root				Jim Duke's personal files.
0	SPHINGOMYELIN	Root				Jim Duke's personal files.
0	BETA-CADINENE	Root Essent. Oil				Jim Duke's personal files.
0	NEOANGELIDE	Root				Jim Duke's personal files.
0	N-BUTYLIDENPHTHALIDE	Root				--
0	ANGELICA-POLYMORPHA-ALKALOID	Root				Jim Duke's personal files.
0	VALEROPHENONE-CARBOXYLIC-ACID	Root Essent. Oil				Jim Duke's personal files.
0	FOLINIC-ACID	Root				Chemical Constituents of Oriental Herbs (3 diff. books)
0	ASH	Root	12320.0	56000.0	-0.3300669201297154	--
0	WATER	Root		780000.0	0.07039472351276986	--
0	URACIL	Root				Jim Duke's personal files.
0	SESSQUITERPENE	Root				Pedersen, M. 1987. Nutritional Herbology. Pederson Publishing. Bountiful, Utah. 377 pp.
0	BREFELDIN-A	Root				Jim Duke's personal files.
0	VIT-E	Root		77.0		--
0	L-MALIC-ACID	Root		2.6		Jim Duke's personal files.
0	ISOSAFROL	Root Essent. Oil				Jim Duke's personal files.
0	THIAMINE	Root				--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
0	VIT-B12	Root				--
0	SEDANOIC-ACID	Root				Chemical Constituents of Oriental Herbs (3 diff. books)
0	EO	Tissue Culture				Jim Duke's personal files.
0	PROLINE	Root				Jim Duke's personal files.
0	CARBOHYDRATES	Root	176000.0	800000.0	-0.38552046590540956	--
0	SUGARS	Root	24200.0	110000.0	0.05921602494532206	--
0	VANILIC-ACID	Root				Chemical Constituents of Oriental Herbs (3 diff. books)
0	EO	Shoot				Jim Duke's personal files.
0	FAT	Root	3960.0	18000.0	-0.16273509823001947	--